

ABSTRACT

A well downhole liquid dispenser is disclosed in which an inlet/discharge port assembly is provided having an inlet port in fluid communication with the shoulders of a conical piston. The point of the conical piston is in physical contact with the discharge channel leading from the center of the inlet/discharge port assembly to the discharge ports on the exterior of the inlet/discharge port assembly. The piston is held in place by an adjustable tensioning mechanism by which the pressure required to depress the piston may be varied to match the hydrostatic column pressure of a liquid column connected to the inlet port of the dispenser such that when the hydrostatic column pressure reaches a desired level, the piston is depressed, allowing fluid to flow from the liquid column regardless of the exterior downhole pressure exerted on the point of the piston through the discharge ports.